

PTO/SB/21 (08-03)  
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/688,676
	Filing Date	17 October 2003
	First Named Inventor	YANNI, John M., et al.
	Art Unit	
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	2394 US

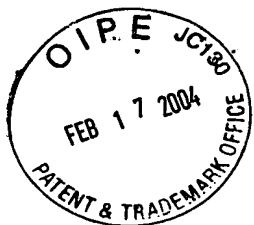
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Teresa J. Schultz, Reg. No. 40,526
Signature	<i>Teresa J. Schultz</i>
Date	11 Feb. 2004

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: YANNI, John M., et al.

Serial No: 10/688,676

Filed: 17 October 2003

Examiner:

Group Art Unit:

FOR: TREATMENT OF DRY EYE BY RESTORING 15-LIPOXYGENASE ACTIVITY  
TO OCULAR SURFACE CELLS

**INFORMATION DISCLOSURE STATEMENT PURSUANT  
TO 37 C.F.R. 1.56, 1.97, AND 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. 1.56, 1.97, and 1.98, Applicants submit the patents, articles, and other information referenced in the specification as filed. The references are listed on the attached PTO Form 1449. Applicants are submitting copies of the non-patent literature in accordance with 37 CFR 1.98(a)(2), copies of the U.S. patents are not enclosed.

Applicants request that the listed patents, articles, and other information be considered during prosecution of this application and that they appear among the "References Cited" on any patent issuing herefrom.

Respectfully submitted,

11 February 2004  
Date

By: Teresa J. Schultz  
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Attorney Docket No.: 2394 US



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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

### Complete if Known

Application Number	10/688,676
Filing Date	17 October 2003
First Named Inventor	YANNI, John M., et al.
Art Unit	
Examiner Name	
Attorney Docket Number	2394 US

Sheet 1 of 4

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1	US- 3,991,759	11/16/1976	Urquhart	
	A2	US- 4,131,651	12/26/1978	Shah et al.	
	A3	US- 4,370,325	01/25/1983	Packman	
	A4	US- 4,409,205	10/11/1983	Shively	
	A5	US- 4,744,980	05/17/1988	Holly	
	A6	US- 4,753,945	06/28/1988	Gilbard et al.	
	A7	US- 4,818,537	04/04/19089	Guo	
	A8	US- 4,868,154	09/19/1989	Gilbard et al.	
	A9	US- 4,883,658	11/28/1989	Holly	
	A10	US- 4,914,088	04/03/1990	Glonek et al.	
	A11	US- 4,966,773	10/30/1990	Gressel et al.	
	A12	US- 5,041,434	08/20/1991	Lubkin	
	A13	US- 5,075,104	12/24/1991	Gressel et al.	
	A14	US- 5,174,988	12/29/1992	Mautone et al.	
	A15	US- 5,278,151	01/11/1994	Korb et al.	
	A16	US- 5,290,572	03/01/1994	MacKeen	
	A17	US- 5,294,607	03/15/1994	Glonek et al.	
	A18	US- 5,371,108	12/06/1994	Korb et al.	
	A19	US- 5,403,841	04/04/1995	Lang et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	A20					
	A21					
	A22					
	A23					
	A24					
	A25					

Examiner  
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/688,676		
		Filing Date	17 October 2003		
		First Named Inventor	YANNI, John M., et al.		
		Art Unit			
		Examiner Name			
Sheet	3	of	4	Attorney Docket Number	2394 US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	Brash et al., "Discovery of a second 15S-lipoxygenase in humans", PROC. NATL. ACAD. SCI. USA 94:6148-6152 (1997)	
	C2	Dartt et. al., "Vasoactive Intestinal Peptide-Stimulated Glycoconjugate Secretion from Conjunctival Goblet Cells", EXPERIMENTAL EYE RESEARCH 63:27-33, (1996)	
	C3	Dilly et al., "Surface changes in the anaesthetic conjunctiva in man, with special reference to the production of mucus from a non-goblet-cell source", BRITISH JOURNAL OF OPHTHALMOLOGY 65:833-842 (1981)	
	C4	Greiner et al., "Mucus Secretory Vesicles in Conjunctival Epithelial Cells of Wearers of Contact Lenses", ARCHIVES OF OPHTHALMOLOGY 98:1843-1846 (1980)	
	C5	Hsi et al., Evaluation of the activity and localization of 15-Lipoxygenase-1 after introduction into human colorectal carcinoma Caco-2 cells, PROSTAGLANDINS, LEUKOTRIENES AND ESSENTIAL FATTY ACIDS 64(4 & 5):217-225 (2001)	
	C6	Hsi et al., "Opposing Effects of 15-Lipoxygenase-1 and -2 Metabolites on MAPK Signaling in Prostate", THE JOURNAL OF BIOLOGICAL CHEMISTRY 277(43):40549-40556 (2002)	
	C7	Lemp, "Report of the National Eye Institute/Industry Workshop on Clinical Trials in Dry Eyes", The CLAO Journal, 21(4):221-232 (1995)	
	C8.	Liminga and Oliw, "Qualitative and Quantitative Analysis of Lipoxygenase Products in Bovine Corneal Epithelium by Liquid Chromatography-Mass Spectrometry with an Ion Trap", LIPIDS 35(2):225-232 (2000)	
	C9	Marom et al., "Human Airway Monohydroxyeicosatetraenoic Acid Generation and Mucus Release", JOURNAL OF CLINICAL INVESTIGATION 72:122-127 (1983)	
	C10	McCulley and Shine, "Tear Film Structure and Dry Eye", Contactologia, 20(4):145-49 (1998)	

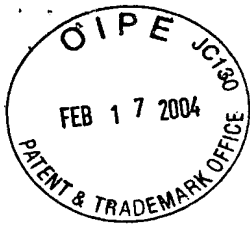
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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		Examiner Name			
Sheet	4	of	4	Attorney Docket Number	2394 US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	D1	Nakamura et al., "Gefamate Stimulates Secretion of Mucin-Like Glycoproteins by Corneal Epithelium in Vitro and Protects Corneal Epithelium from Desiccation in Vivo", EXPERIMENTAL EYE RESEARCH 65:569-574 (1997)	
	D2	Shappell et al., "15-Lipoxygenase-2 (15-LOX-2) Is Expressed in Benign Prostatic Epithelium and Reduced in Prostate Adenocarcinoma", AMER. J. PATH. 155(1):235-245 (1999)	
	D3	Shappell et al., "15-Lipoxygenase-2 Expression in Benign and Neoplastic Sebaceous Glands and Other Cutaneous Adnexa", J. INVESTIGATIVE DERMATOLOGY. 117(1):36-43 (2001)	
	D4	Shine and McCulley, "Keratoconjunctivitis Sicca Associated With Meibomian Secretion Polar Lipid Abnormality", ARCHIVES OF OPHTHALMOLOGY 116(7):849-52 (1998)	
	D5	Stechschulte et al., "Rapid Ocular Angiogenic Control via Naked DNA Delivery to Cornea", INVEST. OPHTHALMOL. VIS. SCI. 42(9):1975-1979 (2001)	
	D6	Watanabe et al., "Human Corneal and Conjunctival Epithelia Produce a Mucin-like Glycoprotein for the Apical Surface", INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE 36(2):337-344 (1995)	
	D7	Yanni et al., "Effect of Intravenously Administered Lipoxygenase Metabolites on Rat Tracheal Mucous Gel Layer Thickness", INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY 90:307-309 (1989)	

Examiner Signature		Date Considered	
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